

SWP Water Quality Summary

December 10 to January 8, 2009

Electrical Conductivity: EC decreased at Banks Pumping Plant (BPP) and Check 29, but increased at Check 41, Barker Slough and Vallecitos, from December 10 to January 9, 2009. Concentrations ranged from 212 uS/cm to 717 uS/cm, but remained below the Article 19 Monthly Average Objective of 440 mg/L (733 uS/cm). Daily average concentrations varied at all the locations. The lowest and highest concentrations of 306 uS/cm and 680 uS/cm as of January 8, 2009 occurred at Check 29 and Check 41, respectively. Concentrations decreased this month at BPP from 717 uS/cm to 575 uS/cm.

Bromide: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations and ranged from 0.06 mg/L to 0.43 mg/L. As of January 9, Check 29 had the lowest concentration of 0.10 mg/L, followed by Barker Slough with 0.13 mg/L while the highest concentration of 0.39 mg/L occurred at BPP. Concentrations at BPP decreased from 0.43 to 0.39 mg/L as of this month.

Turbidity: Turbidity levels increased at BPP, Check 41 and Vallecitos, but decreased at Check 29 and Barker Slough. Turbidity levels ranged from 0.2 NTU to 21 NTU as of January 8, 2009. The lowest level of 0.2 NTU occurred at Check 29 while the highest level of 21 NTU occurred at Barker Slough on January 9, 2009. BPP mean daily turbidity levels increased from 4 NTU to 9 NTU as of January 9, 2009.

Dissolved Organic Carbon (DOC): Concentrations increased at all locations except at Edmonston from December 10 to January 9, 2008. DOC daily average concentrations at BPP and Check 13 ranged from 2.8 mg/L to 4.2 mg/L and from 2.6 mg/L to 3.6 mg/L, but decreased from 2.2 mg/L to 1.7 mg/L at Edmonston. No data for Devil Canyon because of instrument malfunction.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP spanned from low to moderate project wide, ranging from non-detect to 4 ng/L at Clifton Court, BPP, Check 41, Check 66, Castaic Lake, Silverwood Lake and Lake Perris.

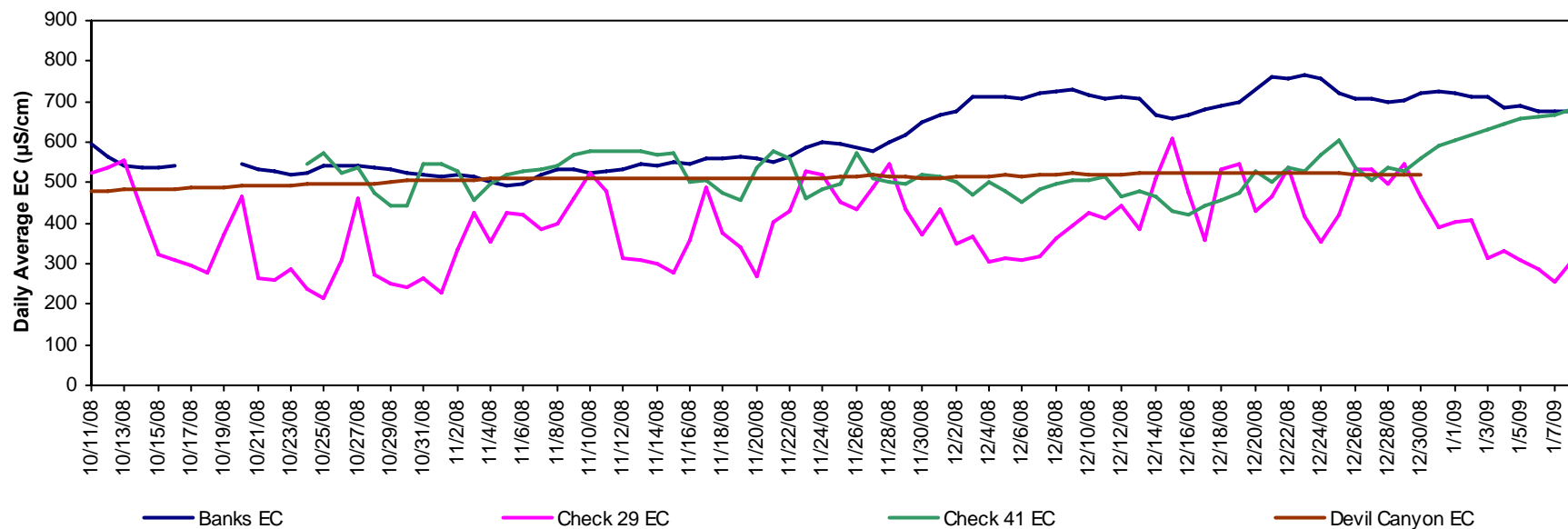
Pump-ins: Pump-ins to the State Water Project (SWP) from the banking programs (Alvin Edison, Kern Water Bank, Cross Valley Canal and Semi-tropic 3) this month added a total volume of 36,754 acre feet (AF).

Note:

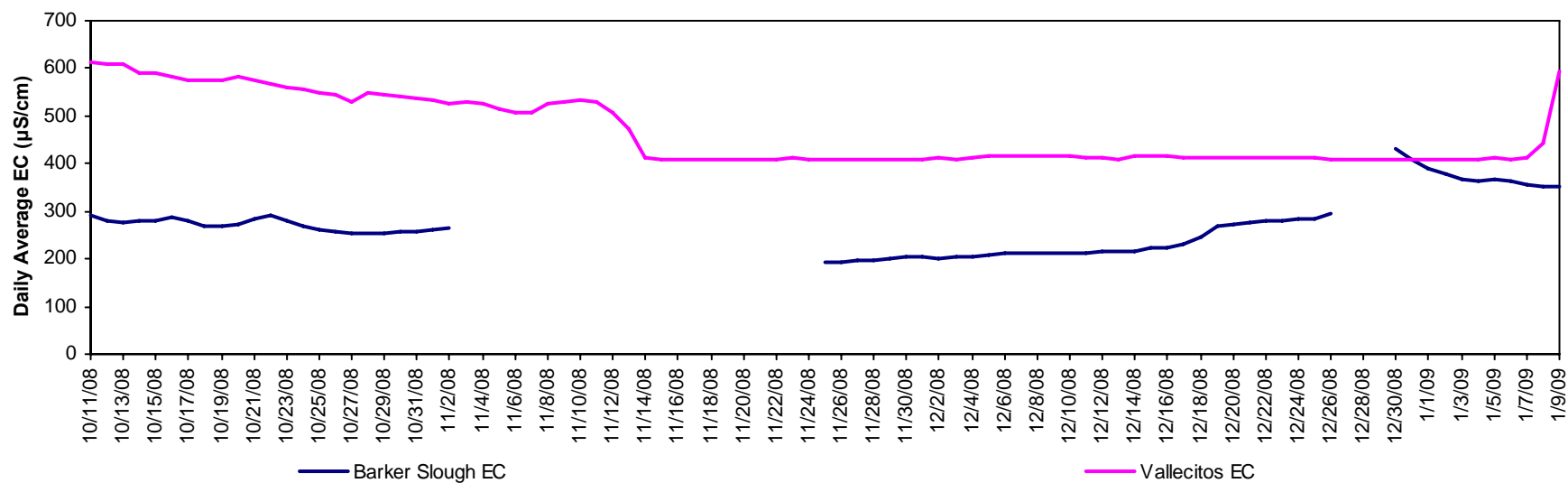
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from any of the 15 automated stations along the SWP, visit:

<http://www.womwq.water.ca.gov> and click the "Autostation Data" link on the left side navigation bar.

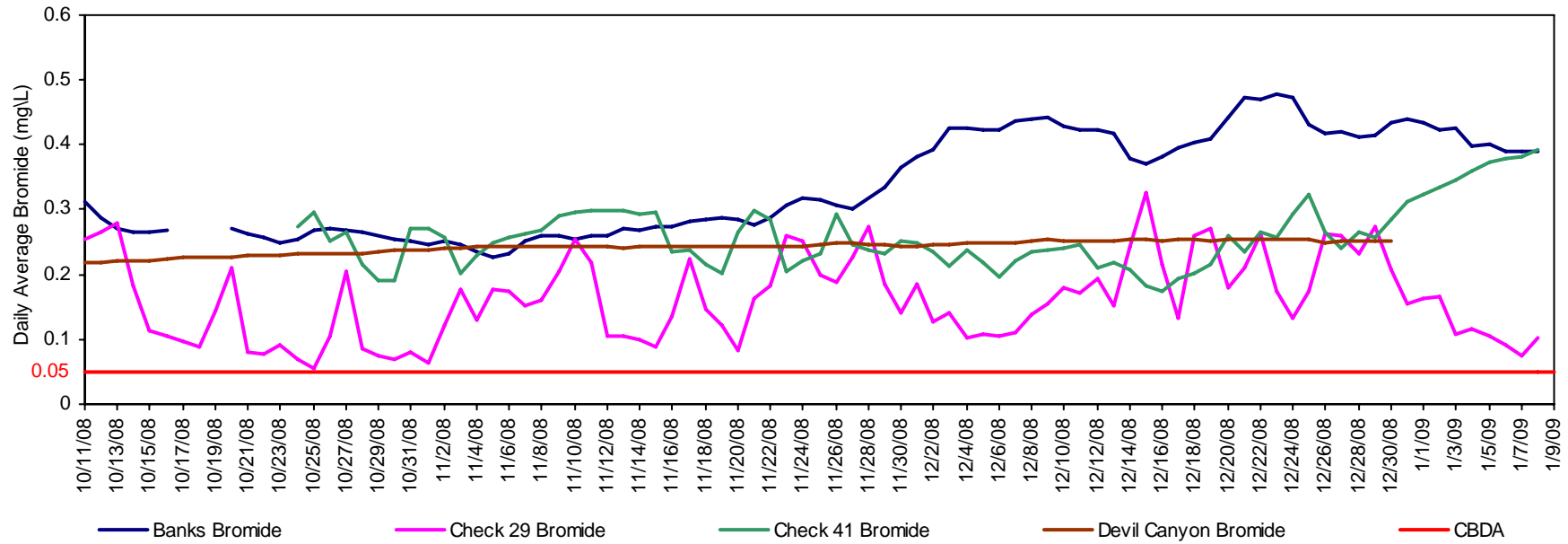
California Aqueduct - Electrical Conductivity



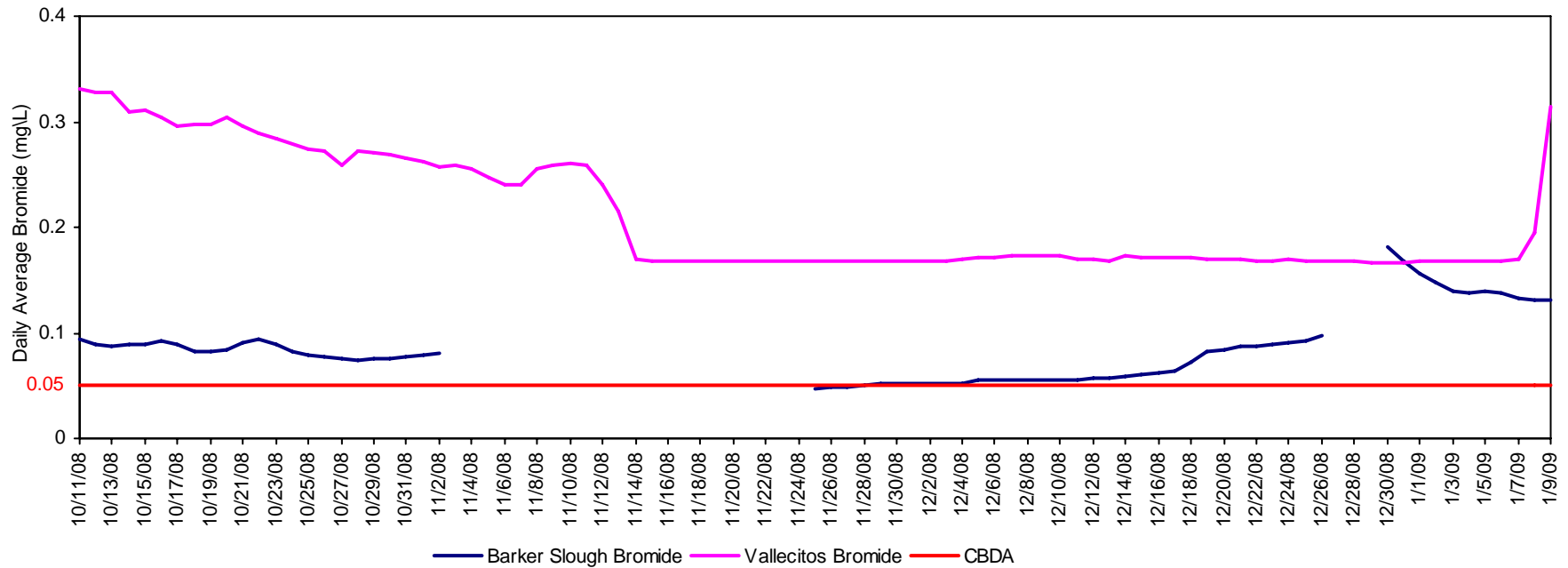
North and South Bay Aqueduct - Electrical Conductivity



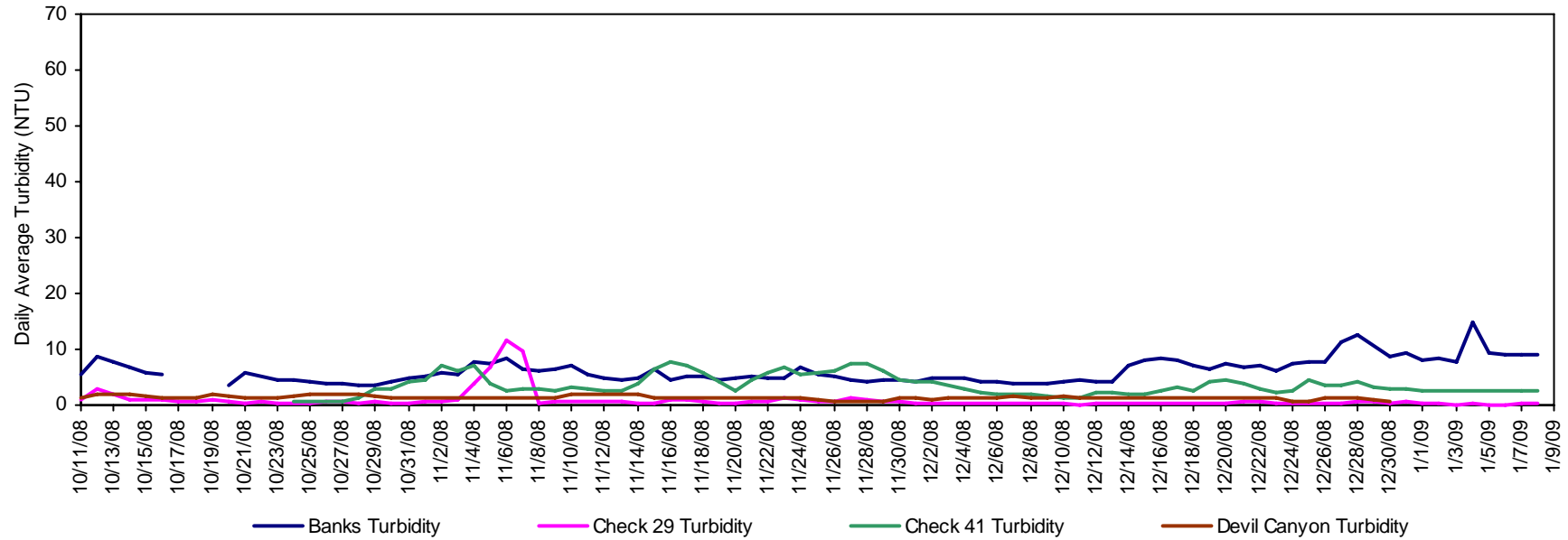
California Aqueduct - Calculated Bromide



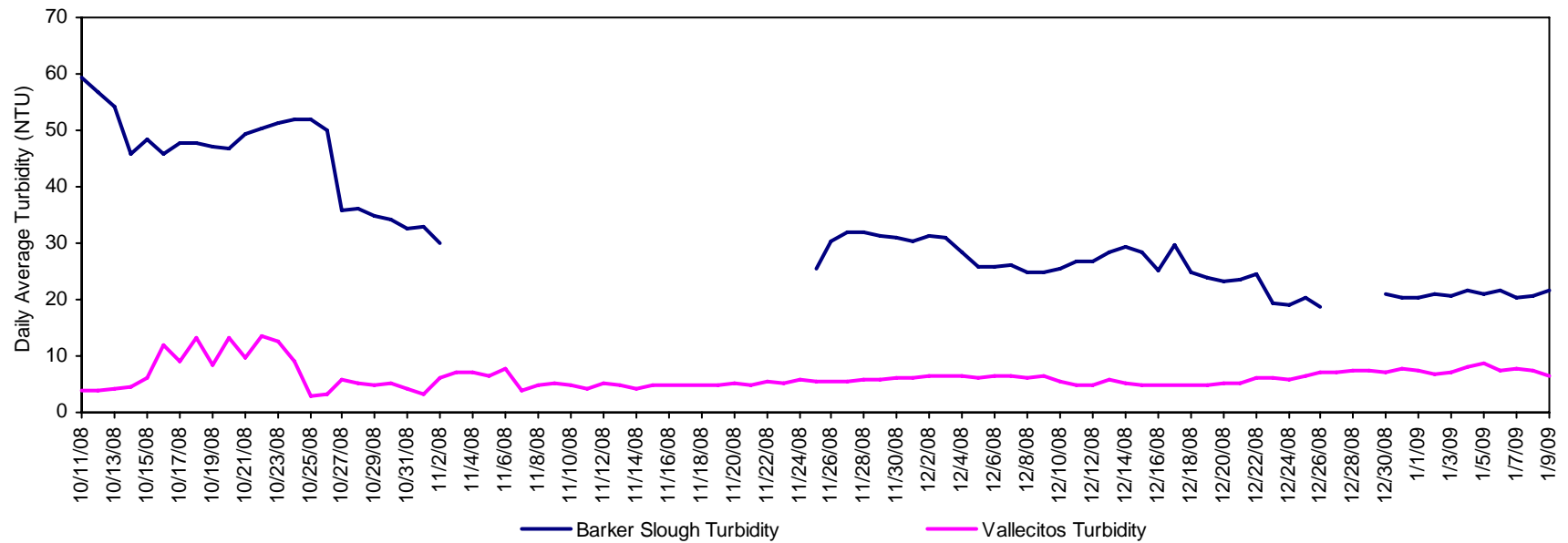
North and South Bay Aqueduct - Calculated Bromide



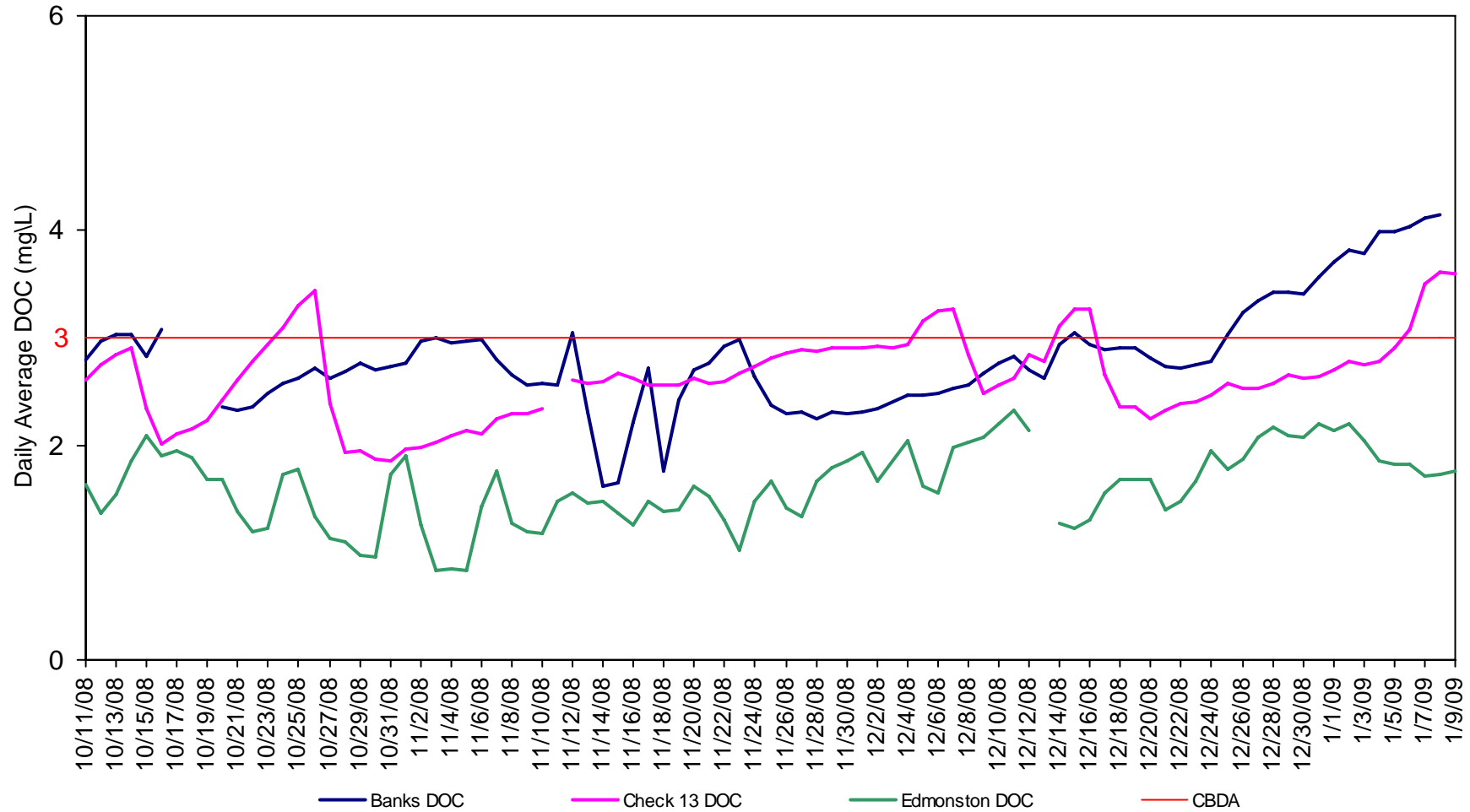
California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon



SWP Water Quality Report

DWR Operations & Maintenance Water Quality Automated Station Data from December 10, 2008 to January 8, 2009

Automated sampling stations provide real time data by continuously measuring water quality conditions in the California Aqueduct.

Water Quality Parameters	Objective	Range	Harvey O. Banks PP KA000331	Check 29 KA024454	Check 41 KA030341	Devil Canyon KA041288	NBA at Barker Slough KG000000	Vallecitos KB002250	Check 13 O'Neill Forebay Outlet KA007089	Edmonston PP Milepost 293.45
EC (µS/cm)	733**	average	707	430	545	522	297	412		
		12/10/08	717	425	506	521	212	417		
		1/8/09	675	306	680	-	352	444		
Bromide (mg/L)	0.05*	average	0.42	0.19	0.27	0.25	0.10	0.17		
		12/10/08	0.43	0.18	0.24	0.25	0.06	.17		
		1/8/09	0.39	0.10	0.39	-	0.13	0.19		
Turbidity (NTU)		average	8	0.3	3	1	23	7		
		12/10/08	4	0.3	1	2	26	6		
		1/8/09	9	0.2	3	-	21	7		
DOC (mg/L)	3.0*	average	3.2						2.7	1.8
		12/10/08	2.8						2.6	2.2
		1/8/09	4.2						3.6	1.7
Taste & Odor Parameters	Range	Clifton Court KA000000	Harvey O. Banks PP KA000331	Lake Del Valle, Check 7 KB001632	Check 13 O'Neill Forebay Outlet KA007089	Check 41 KA030341	Check 66 KA040341	Castaic Lake	Lake Perris	Silverwood Lake
MIB (ng/L)	1/5/09 to	1	1	ND	-	ND	ND	ND	4	ND
Geosmin (ng/L)	1/6/09	3	3	ND	-	1	2	ND	ND	2

*CBDA Objective

**Article 19 Monthly Average (converted from 440 mg/L to 733µS/cm)

ND = Non-detect